Performance Data Sheet

HGA5512EXD

General Information

Model	HGA5512EXD	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	3960	3660					
	Watts	582	606					
	Amps	2.78	2.94					
	Lb/h	51.1	49.3					
-10	Btu/h	4570	4280	3950				
	Watts	598	627	663				
	Amps	2.84	3.02	3.19				
	Lb/h	58.7	57.1	55.1				
-5	Btu/h	5210	4920	4590	4220			
	Watts	613	646	686	732			
	Amps	2.89	3.09	3.28	3.47			
	Lb/h	66.4	65.2	63.4	61.2			
0	Btu/h	5880	5590	5250	4880	4470		
	Watts	625	662	707	757	812		
	Amps	2.94	3.15	3.37	3.58	3.80		
	Lb/h	74.5	73.5	71.9	69.8	67.3		
5	Btu/h	6600	6290	5940	5550	5130		
	Watts	635	677	725	780	840		
	Amps	2.98	3.21	3.45	3.68	3.92		
	Lb/h	83.0	82.1	80.7	78.8	76.3		
10	Btu/h	7360	7040	6670	6260	5820	5350	4860
	Watts	642	688	742	801	865	932	1000
	Amps	3.01	3.27	3.52	3.78	4.04	4.31	4.59
	Lb/h	92.0	91.2	89.9	88.1	85.7	82.9	79.5
15	Btu/h	8180	7830	7440	7010	6540	6040	5520
	Watts	646	698	756	820	888	960	1030
	Amps	3.03	3.31	3.58	3.86	4.15	4.44	4.75
	Lb/h	102	101	99.7	97.9	95.6	92.7	89.4
20	Btu/h	9060	8690	8270	7810	7310	6770	6220
	Watts	648	705	768	836	909	985	1060
	Amps	3.05	3.34	3.64	3.94	4.25	4.57	4.90
	Lb/h	112	111	110	108	106	103	99.7

25	Btu/h	10000	9620	9160	8660	8120	7550	6960
	Watts	646	708	777	850	927	1010	1090
	Amps	3.05	3.36	3.68	4.00	4.34	4.68	5.04
	Lb/h	123	122	121	119	117	114	111
30	Btu/h	11100	10600	10100	9590	9000	8390	7740
	Watts	642	709	783	861	943	1030	1120
	Amps	3.04	3.37	3.71	4.06	4.41	4.78	5.16
	Lb/h	135	134	133	131	129	126	122
35	Btu/h	12200	11700	11200	10600	9950	9280	8580
	Watts	634	707	786	869	957	1050	1140
	Amps	3.01	3.37	3.73	4.10	4.48	4.87	5.28
	Lb/h	148	147	146	144	141	138	134
40	Btu/h	13400	12900	12300	11700	11000	10300	9490
	Watts	623	702	786	875	967	1060	1160
	Amps	2.97	3.35	3.73	4.12	4.52	4.94	5.38
	Lb/h	162	161	160	158	155	152	148
45	Btu/h	14800	14200	13500	12800	12100	11300	10500
	Watts	609	693	783	877	975	1080	1180
	Amps	2.92	3.31	3.71	4.13	4.56	5.00	5.46
	Lb/h	177	176	175	172	170	166	162
50	Btu/h	16200	15600	14900	14100	13300	12400	11500
	Watts	591	681	776	876	979	1080	1190
	Amps	2.84	3.26	3.68	4.12	4.57	5.04	5.53
	Lb/h	193	192	191	188	185	181	177
55	Btu/h	17800	17100	16300	15500	14600	13700	12700
	Watts	569	665	766	872	981	1090	1200
	Amps	2.75	3.18	3.63	4.09	4.57	5.06	5.58
	Lb/h	211	210	208	206	202	198	193

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.955241E+03	7.087581E+02	8.445169E-01	6.246309E+01
C2	1.378029E+02	-6.234853E+00	-1.236292E-02	1.170653E+00
C3	3.217894E+01	-6.605547E+00	3.291743E-02	3.982857E-01
C4	1.721498E+00	-7.117854E-02	-1.555369E-04	1.402426E-02
C5	1.463885E-01	1.178068E-01	1.628396E-04	7.836360E-03
C6	-4.983323E-01	8.388775E-02	-1.152483E-04	-3.315690E-03
C7	1.119853E-02	-1.768618E-04	-1.644200E-06	1.291856E-04
C8	-1.122747E-02	2.817881E-04	2.838720E-07	-7.459842E-05
C9	-1.780174E-03	-1.562753E-04	1.282221E-06	-2.271504E-05
C10	1.059973E-03	-1.804377E-04	3.835067E-07	2.746699E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature